

*b1 b2*  
9. (Once Amended) A recombinant delivery vector encoding a fusion protein comprising all or a portion of a microbiological antigen into which any one of the proteins of claims 2-4 has been inserted.

*b2*  
12. (Once Amended) A recombinant delivery vector encoding an attenuated virus further comprising a nucleotide sequence encoding one or more of the proteins of any one of claims 2-4.

16. (Once Amended) A method of generating antibodies in a mammal comprising administering one or more of the proteins or fragments thereof of any one of claims 2-4, in an amount sufficient to induce the production of the antibodies.

*b3*  
17. (Once Amended) A method of generating antibodies in a mammal comprising administering a DNA or mRNA sequence encoding any one of the proteins or fragments thereof of claims 2-4, in an amount sufficient to induce the production of the antibodies.

19. (Once Amended) A diagnostic reagent comprising one or more of the isolated HIV-1 envelope proteins or fragments thereof of any one of claims 2-4.

*b4*  
20. (Once Amended) A method of detecting HIV-1 antibodies in a sample comprising the step of determining whether antibodies in the sample bind to one or more of the HIV-1 envelope proteins or fragments thereof of claims 2-4.